

Title (en)
Doctor blade head assembly with printing apparatus therewith.

Title (de)
Rakelhalter und Druckmaschine mit diesem Halter.

Title (fr)
Support pour racle et machine à imprimer avec ce support.

Publication
EP 0499382 A1 19920819 (EN)

Application
EP 92300765 A 19920129

Priority
US 65565391 A 19910214

Abstract (en)
A doctor blade head assembly (30), particularly for use in a flexographic printing press (18, 20), has a head body (52) pivoted to a support frame (60) with an inflatable air tube (68) disposed therebetween. The air tube (68) extends along a channel (126) having a bottom (168) formed with spaced apart raised portions (160, 162, 164) which cause the air tube (68) to bulge out (174) at these locations. In this way the air tube (68) essentially only presses against the head body (52) at these spaced apart locations, for example at the center and adjacent the ends, which reduces the tendency of the head body (52) to bend along its length. This provides a more uniform ink film on the ink roll (32) being inked by the doctor blade head assembly (36). End seal arrangements (146) at the ends of the head body each include a resilient block seal (200) and a resilient pad seal (198) with which greased edge portions of the doctor blades (48, 50) slidably engage. The doctor blades (48, 50) overhang the ends of the ink roll (32), and an ink outlet passageway (202, 204) extends through each end seal arrangement (146) independently of the seals. <IMAGE>

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CPC (source: EP US)
B41F 31/027 (2013.01 - EP US)

Citation (search report)
• [AD] US 5003876 A 19910402 - HARRISON JOHN R [US], et al
• [AD] US 3116688 A 19640107 - WARD JR HENRY D, et al

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DE202009013643U1; EP0812687A3; KR102277054B1; EP0916490A3; DE102009039309B4; DE4435695C2; EP1398152A1; EP0688670A1; EP0607574A1; DE102009039309A1; US6792855B2; WO2006018111A1; EP0737575B1

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